

# GT OSPO Virtual Student Internship Program

3/13/2025



Georgia Tech  
Open Source Program Office

# Outline

## Introduction of OSPO@GT

- Core Objectives

## OSPO Summer Program Details

- Timeline

## Student Application Process

**Georgia Tech's Open Source Program Office (OSPO) aims to build open-source capacity on campus and at nearby academic institutions through education on best practices, outreach, and training and engagement of students.**



# OSPO@GT Core Objectives

## Build an OSS Ecosystem on Campus

### Establish an OSS Standard for GT

**Develop** and share best practices for open-source software development at the institute level via an OSS research hub

**How to** create an open-source project

**How to** choose a license

**How to** develop and grow an open source community

### Training

**Create and support** a virtual summer internship experience targeted to introduce students to new open-source research projects and experiences

**Technical Training & Workshops** on the usage of key OSS tools (Git, containers, CI/CD) and how to engage with OSS projects

### Sustaining OSS

**Build** the university's capacity to curate, manage and maintain open-source software throughout the software lifecycle

**e.g., Archival techniques** to preserve open-source software

## Outreach to Local Universities

# OSP0 Virtual Internship Program Details

# OSPPO Virtual Internship Program

10 week program, starting in May and running through July, 2025

Students apply and are selected by OSPPO team

- OSPPO can fund undergrad student work up to 20 hours per week for up ~20-25 students
  - A few (6-8) graduate students can also potentially be selected
- OSPPO will help to drive the initial student selection process and mapping to teams

Program consists of close interactions with mentors on project team and weekly seminars to share open-source concepts

- Milestones for reporting of interactions with students along with a virtual poster session at the end of the internship
- Modules focused on developing core skills to enable students to **contribute to open source projects** and **initiate their own open source projects**
- Discord group allows for asynchronous interactions with mentors and students

# OSPO Virtual Internship Program – Added Details

- The program is anticipated to require 20 hours per week of work, and the program runs from mid-May to the end of July
  - Paid students are hourly and must fill out timesheets
  - You do not need to enroll in classes at Georgia Tech to apply/participate
- Students must be enrolled at Georgia Tech during the calendar year with at least one semester remaining in their degree program
  - Currently not able to engage with students outside of Georgia Tech but anticipate looking at this as a future option
- There are no visa / citizenship requirements for applying to the internship

# Virtual Internship Program – Timeline (1 of 2)

Date	Activity	Notes
March 27, 2025	Applications for Summer 2025 Close	
April 7, 2025	Students Notified for Summer Program	
April 2025	Selected Students are Hired by GT	
May 19 <sup>th</sup>	Virtual Internship program officially begins	
(Week of) May 19 <sup>th</sup>	Submission of official milestones for students	Mentors and students meet and discuss projects and set milestones
May 20 <sup>th</sup>	OSS Module 1 – Review Git Best Practices	All modules are virtual workshops with slides / hands-on
May 27 <sup>th</sup>	OSS Module 2 – Contributing to OSS	Work through PRs, issue tracking
June 3 <sup>rd</sup>	OSS Module 3 – Testing your Code	Discuss CI/CD and basic testing
June 10 <sup>th</sup>	OSS Module 4 – Code Reviews	Learn how to review PRs and team communication



# Virtual Internship Program – Timeline (2 of 2)

Date	Activity	Notes
(Week of) June 17 <sup>th</sup>	Milestone 1 – Midterm Check-in	Discuss any sticking points with teams
June 24 <sup>th</sup>	OSS Module 5 – OSS Tips and Tricks	Talk about lessons learned from existing OSS communities
July 1 <sup>st</sup>	OSS Module 6 – Building OSS Community	
July 8 <sup>th</sup>	Milestone 2 – Midterm Check-in	
July 15 <sup>th</sup>	Finalize OSS Contributions	Work on cleaning up and code/documentation contributions
(Week of) July 28 <sup>th</sup>	Final Poster Presentations	

# Student Application Process



Georgia Tech

Open Source Program Office

# Virtual Internship Program – Student Applications

If you are interested please apply by **March 27<sup>th</sup>**

- 1) Go to <https://ospo.cc.gatech.edu/vsip/>
- 2) Check out slides and lightning talks linked from our Github page (recording will also be there)
- 3) Apply and select up to 5 projects that interest you!
  - Projects are randomized in the form
  - We will use these selections to pair students with projects and mentors

## Informational Session for Students

If you are interested to learn more about this internship, please join us on February 27<sup>th</sup> from 4:30 to 6 hear about potential projects through lightning talks from our IBM research partners. The session will agenda site below.

Register to join the informational session via this [\[zoom link\]](#).

## PROJECT AND LIGHTNING TALK INFORMATION

## Student Applications

Students must apply using the form below by March 15th, 2024. Students will be notified on March 29 projects.

## SUBMIT AN APPLICATION

3. Please select up to 5 proposed projects based on your level of interest. Click to learn a bit more detail about the project's goals and expected student engagement.

Please select at most 5 options.

- ☒ Analog Neural Architecture Search <<https://github.com/IBM/analog-nas>>
- ☐ Open Horizon <<https://lfedge.org/projects/open-horizon/>>
- ☒ z/OS Open Tools <<https://github.com/ZOSOpenTools>>
- ☐ IBMWeatherGen <<https://github.com/IBM/IBMWeatherGen/>>
- ☐ SPIFFE/SPIRE/Tornjak <<https://github.com/spiffe/tornjak>>
- ☒ Alpine Linux <<https://alpinelinux.org>>
- ☐ PyTorch <<https://github.com/pytorch/>>
- ☒ OpenTelemetry <<https://github.com/open-telemetry>>
- ☒ ComplianceTrestle <<https://github.com/oscal-compass/compliance-trestle>>

# Lightning Talks

## Each Talk Should Tell You

### 1. What the project is about

- maintainers and the Github / URL for the project

### 2) Project Ideas

- Ideally mapped to different skill levels

### 3) Contact Information

#### Project Ideas

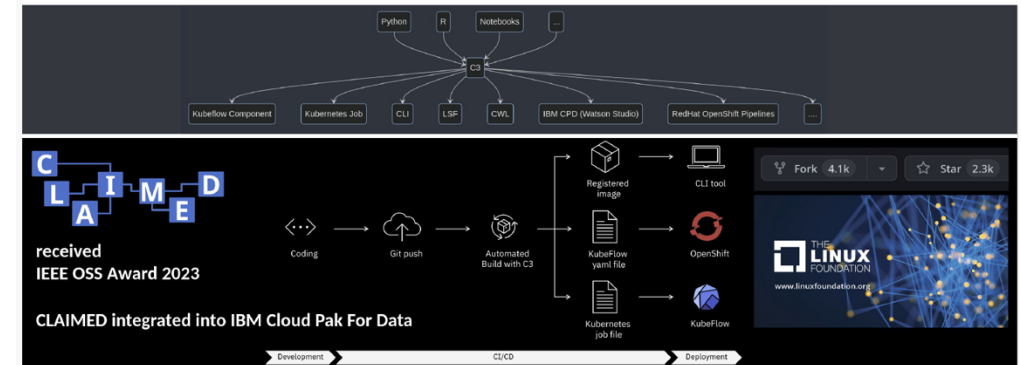
- Behavioral similarity search using graph embeddings [skills: Python, Go, Vector Databases, ML]
- Add Yara or KQL rules interpreter to SysFlow [skills: Go, detection engineering]
- Explainer for SysFlow traces/graphs (given a trace, summarize attack TTPs and kill chains in English) [skills: Python, ML, Linux]
- Help develop tutorials using our data science APIs [skills: Python, ML, Data Visualization, Data Science]
- Become a documentation czar! [skills: Technical writing, Communication]



<https://github.com/sysflow-telemetry>

Watch our OSSNA'23 talk to learn more about SysFlow!

<https://youtu.be/v3yVtLwy5AA>



<https://github.com/claimed-framework>

Ping romeokienzler on discord or  
[romeo.kienzler1@ibm.com](mailto:romeo.kienzler1@ibm.com)

## The sky is the limit ... for you to work on Open Liberty

### Novel Applications

*Demo cloud-native Java technologies in a fun way*

#### Liberty Space Rover

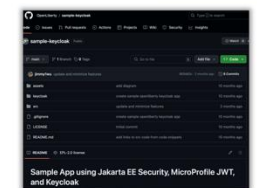


#### Liberty Bikes



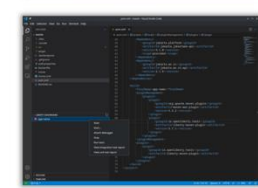
### Samples & Guides

*Create technical assets for developers to learn to build real-life applications*



### Liberty Components

*Contribute to core components for the runtime and tools for developers*



# Questions?

**Website: [ospo.cc.gatech.edu](https://ospo.cc.gatech.edu)**

**Contact: [ospo-directors@groups.gatech.edu](mailto:ospo-directors@groups.gatech.edu)**

